

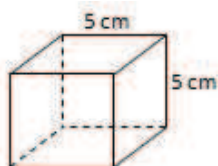
Grade 11 Essentials
Calculating Surface Area with Formulas Worksheet

Name: _____

1) Use the appropriate formula to calculate the surface area of each of the following solids.

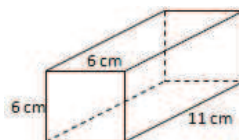
a)

Solution:



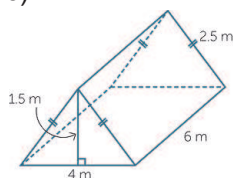
b)

Solution:



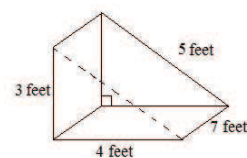
c)

Solution:



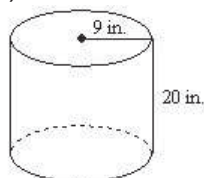
d)

Solution:



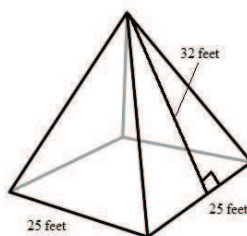
e)

Solution:



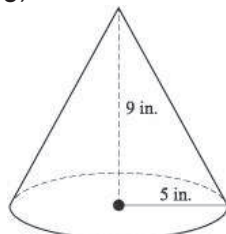
f)

Solution:



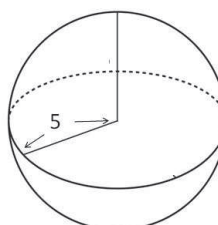
g)

Solution:



h)

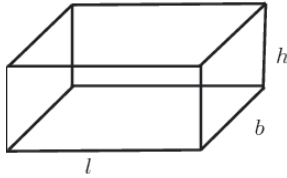
Solution:



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2) Calculate the missing measurement with the given information.

a)

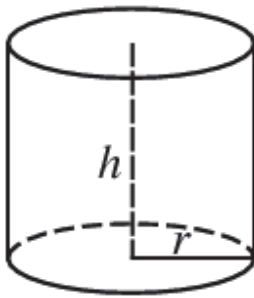


Question:

If the surface area of this rectangular prism is 302 km^2 and the dimensions of the bottom and top faces is 11 km by 5 km , what is the height of this prism?

Solution:

b)

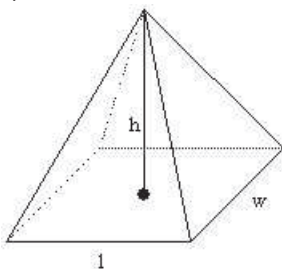


Question:

If the total surface area of this cylinder is 4.71 in^2 and the circumference of the bases is 3.14 in , what is the height of this cylinder?

Solution:

c)

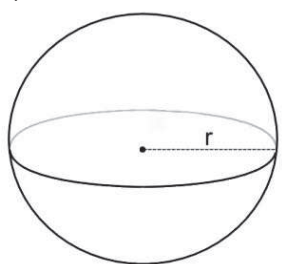


Question:

If the total surface area of this pyramid is 360 ft^2 and the base is a 10 ft by 10 ft square, what is the slant height of the pyramid?

Solution:

d)



Question:

If the total surface area of this sphere is 74468.24 yd^2 , what is its radius?

Solution: